

Erratum: Heat Capacities and Entropies of Organic Compounds in the Condensed Phase, Volume III [J. Phys. Chem. Ref. Data 25, 1–525 (1996)]

Cite as: Journal of Physical and Chemical Reference Data **26**, 1501 (1997); <https://doi.org/10.1063/1.556003>

Published Online: 15 October 2009

Eugene S. Domalski, and Elizabeth D. Hearing



[View Online](#)



[Export Citation](#)

ARTICLES YOU MAY BE INTERESTED IN

[Heat Capacities and Entropies of Organic Compounds in the Condensed Phase. Volume III](#)

Journal of Physical and Chemical Reference Data **25**, 1 (1996); <https://doi.org/10.1063/1.555985>

[Heat Capacities and Entropies of Organic Compounds in the Condensed Phase Volume II](#)

Journal of Physical and Chemical Reference Data **19**, 881 (1990); <https://doi.org/10.1063/1.555876>

[Erratum: Heat Capacities and Entropies of Organic Compounds in the Condensed Phase \[J. Phys. Chem. Ref. Data **13**, Suppl. 1 \(1984\)\]](#)

Journal of Physical and Chemical Reference Data **19**, 1075 (1990); <https://doi.org/10.1063/1.555861>

Where in the **world** is AIP Publishing?
Find out where we are exhibiting next

AIP Publishing

Erratum: Heat Capacities and Entropies of Organic Compounds in the Condensed Phase, Volume III

[J. Phys. Chem. Ref. Data 25, 1–525 (1996)]

Eugene S. Domalski and Elizabeth D. Hearing

Chemical Kinetics and Thermodynamics Division, National Institute of Standards and Technology, Gaithersburg, Maryland 20899

The errata are arranged in the format shown below and are listed as found according to successive pages in the 1996 publication, J. Phys. Chem. Ref. Data 25, 1–525 (1996). After the page number for a specific erratum, which is shown on the extreme left side of the first line, information is provided regarding its location on a given page, such as: compound formula, compound name, reference squib, or other pertinent information. On the second line, the erratum appears as found in the publication. On the third line, one finds the correction. The last line offers a comment or explanation about the erratum.

© 1997 American Institute of Physics and American Chemical Society.

[S0047-2689(97)00206-7]

Errata Format			
Page			
Formula/Name/Reference/Text			
Incorrect	(as it appears)		
Correct	(as it should be)		
[comment regarding error]			
Specific Errata			
10	CCl ₄	73SUB/RAS	75PED/KAY
Incorrect	73SUB/RAS		
Correct	73SUB/RAJ		
[reference squib error]			
32	C ₂ D ₄ Br ₂	49DHO/JUN	81GOR/ZAL
Incorrect	E2E		58.0 K
Correct	E2E&2/H-2 4		165 K
[error in WLN]			280.1 K
39	C ₂ H ₃ N	78DEV/HEU	81GOR/ZAL
Incorrect	8DEV/HEU		58.0 K
Correct	78DEV/HEU		165 K
[reference squib error]			280.1 K
39	C ₂ H ₃ N	79VIS/SOM	50CRO/SMY
Incorrect	79VIS/SOM		
Correct	79DEV/SOM		
[ambiguity in reference squibs; 79DEV/SOM and 79VIS/SOM are squibs for identical references]			
46	C ₂ H ₅ NO	79DEV/SOM	76CON/GIN
[data entry and reference are the same as 79VIS/SOM]			
47	C ₂ H ₅ NO	79VIS/SOM	71HYD/SUB
[data entry and reference are the same as 79DEV/SOM]			
50	C ₂ H ₆ O	20GIB/PAR	80LYA
Incorrect	...experimental datum.		
Correct	...experimental datum.		
[spelling error]			
112	C ₄ H ₈ O ₂		71HYD/SUB
Incorrect	71HYD/SUB		
Correct	71KHA/SUB		
[reference squib error]			
112	C ₄ H ₉ NO		80LYA
Incorrect	C ₄ H ₉ NO(c)		
Correct	C ₄ H ₉ NO(liq)		
[error in phase]			
139	C ₅ H ₁₀		1881REI
Incorrect	2-Pentene (flush right)		
Correct	2-Pentene (flush left)		
[error in format]			
168	C ₆ H ₄ N ₂ O ₄		26AND/LYN
Incorrect	Temperature range 22–240248C		
Correct	Temperature range 22–240 °C		
[upper temperature limit error]			

181	$C_6H_6O_2$	89BRI/LIC	289	$C_9H_9NO_3$	61HUB/FRO	
Incorrect	89BRI/LIC		Incorrect	$C_9H_9NO_3$ (liq)		
Correct	89BRE/LIC		Correct	$C_9H_9NO_3$ (c)		
[reference squib error]						
182	$C_6H_6O_2$	89BRI/LIC	326	$C_{11}H_{14}O_3$	93GIM/AUD	
Incorrect	89BRI/LIC		Incorrect	$Cp(\text{liq})=1.03+2.13 e^{-3}T(K)$		
Correct	89BRE/LIC		Correct	$Cp(\text{liq})=1.03+2.13 \times 10^{-3}T(K)$		
[reference squib error]						
192	$C_6H_{11}NO$	92KOZ/KAB	330	$C_{12}F_{26}$	93LEB/BYK	
Incorrect	...CP(liq, 380–430 K)...		[reference missing from Bibliography]			
Correct	... C_p (liq, 380–430 K)...					
[typographical error]						
195	C_6H_{12}	73SUB/RAS	339	$C_{12}H_{14}N_4O$	77KAR/RAB	
Incorrect	73SUB/RAS		Incorrect	c/liq 402.6 K		
Correct	73SUB/RAJ		Correct	c/liq 425.1 K		
[reference squib error]						
209	C_6H_{14}	82CZA	356	$2C_{13}H_{28}$	54FIN/GRO2	
Incorrect	82CZA		Incorrect	$2C_{13}H_{28}$		
Correct	80CZA		Correct	$C_{13}H_{28}$		
[reference squib error]						
217	$C_6H_{14}S$	82TUT/GAB	356	$C_{14}F_{30}$	93LEB/BYK	
Incorrect	1-Hexanethiol		[reference missing from Bibliography]			
Correct	4-Thiaheptane					
[compound name error]						
239	C_7H_{10}	78STE	372	$C_{16}F_{34}$	93LEB/BYK	
Incorrect	C_7H_{10} (liq)		[reference missing from Bibliography]			
Correct	C_7H_{10} (c)					
[error in phase]						
240	C_7H_{12}	70CHA/MCC	383	$(C_{17}H_{14}N_2O_2)_n$	75LEB/ARO	
Incorrect	70CHA/MCC		Incorrect	TN6 CN ENJ BOR& DX1&1&RO* DOR &DX1&1&RO* EOR& DX1&1&RO* /1/3		
Correct	70CHA/MCN		Correct	/*NUY*OR DX1&1&ROY*UN*/		
[reference squib error]						
254	$C_7H_{20}Si$	75GUS/KAR	386	$C_{18}H_{15}OP$	89HUL/VAN	
Incorrect	$C_7H_{20}Si$ (c)		Incorrect	89HUL/VAN		
Correct	$C_7H_{20}Si$ (liq)		Correct	89HUI/VAN		
[error in phase]						
255	$C_8H_5F_3O_2$	62GOO/LAC	386	$C_{18}H_{24}Cr$	72NIK/SAF	
Incorrect	$C_8H_5F_3O_2$ (liq)		Incorrect	$C_{18}H_{24}Cr$ mol. wt. 292.3836		
Correct	$C_8H_5F_3O_2$ (c)		Correct	$C_{24}H_{36}Cr$ mol. wt. 278.5602		
[error in phase]						
281	$C_8H_{18}O_2$	93GIM/AUD	395	$C_{19}H_{22}ClNO$	82TSU/SOR	
Incorrect	$Cp(\text{liq})-1.20+2.77 e^{-3}T(K)$		Incorrect	82TSU/SOR2		
Correct	$Cp(\text{liq})=1.20+2.77 \times 10^{-3}T(K)$		Correct	82TSU/SOR3		
[error in equation for $Cp(\text{liq})$]						
287	C_9H_7N	88STE/ARC	395	$C_{19}H_{22}FNO$	82TSU/SOR2	
Isoquino-			Incorrect	82TSU/SOR2		
line			Correct	82TSU/SOR3		
Incorrect	Evaluation A		[reference squib error]			
Correct	Evaluation A					
λ -Transition near 220 K.						
[comment omitted]						
404	$C_{21}H_{24}Si_3O_3$		404	$C_{21}H_{24}Si_3O_3$	81MEK/KAR	
Incorrect	$C_{21}H_{24}Si_3O_3$		Incorrect	$C_{21}H_{24}Si_3O_3$	81MEK/KAR	
cis-Tri(methylphenyl)trisiloxane						
Correct	$C_{21}H_{24}O_3Si_3$		Correct	$C_{21}H_{24}O_3Si_3$		
cis-1,3,5-Trimethyl-1,3,5-triphenyl-						
cyclotrisiloxane						
[errors in formula and compound name]						

404	$C_{21}H_{24}Si_3O_3$	81MEK/KAR	446	Bis(isopropylbenzene)chromium
Incorrect	$C_{21}H_{24}Si_3O_3$ trans-Tri(methylphenyl)trisiloxane		Incorrect	Bis(isopropylbenzene)chromium $C_{18}H_{24}Cr$
Correct	$C_{21}H_{24}O_3Si_3$ trans-1,3,5-Trimethyl-1,3,5-triphenyl-cyclotrisiloxane [errors in formula and compound name]		Correct	Bis(diisopropylbenzene)chromium $C_{24}H_{36}Cr$ [errors in name and formula; CASRN is correct]
406	$C_{22}H_{14}O_4$	77KAR/RAB	451	2,6-Di- <i>tert</i> -butyl-4-((3,5-di- <i>tert</i> -butyl-4-oxocyclohexa-2,5-dienylidene methyl) phenol
Incorrect	c/liq 425.1 K		Incorrect	2,6-Di- <i>tert</i> -butyl-4-(3,5-di- <i>tert</i> -butyl-4-oxocyclohexa-2,5-dienylidene methyl) phenol
Correct	c/liq 402.6 K [error in original paper, see Cp vs T plot]		Correct	2,6-Di- <i>tert</i> -butyl-4-(3,5-di- <i>tert</i> -butyl-4-oxocyclohexa-2,5-dienylidene methyl)phenol [spelling error in name]
407	$C_{22}H_{26}$	83KRA/BEC	452	Diisododecyl phthalate
Incorrect	1,1'-Diphenyl-1,1'-bicyclopentane		Incorrect	27554-06-9
Correct	1,1'-Diphenyl-1,1'-bicyclopentyl [nomenclature error]		Correct	40989-56-8 [error in CASRN]
414	$C_{24}H_{30}$	83KRA/BEC	454	1,1'-Diphenyl-1,1'-bicyclohexane
Incorrect	1,1'-Diphenyl-1,1'-bicyclohexane		Incorrect	1,1'-Diphenyl-1,1'-bicyclohexane
Correct	1,1'-Diphenyl-1,1'-bicyclohexyl [nomenclature error]		Correct	1,1'-Diphenyl-1,1'-bicyclohexyl [nomenclature error]
414	$C_{24}H_{38}O_4$	70MAR/RA	454	1,1'-Diphenyl-1,1'-bicyclooctane
Incorrect	70MAR/RA		Incorrect	1,1'-Diphenyl-1,1'-bicyclooctane
Correct	70MAR/RAB [reference squib error]		Correct	1,1'-Diphenyl-1,1'-bicyclooctyl [nomenclature error]
420	$C_{26}H_{34}$	83KRA/BEC	454	1,1'-Diphenyl-1,1'-bicyclopentane
Incorrect	$C_{26}H_{34}$ 1,1-Diphenyl-1,1'-bicyclooctane $C_p=453.8 \text{ J mol}^{-1} \text{ K}^{-1}$ mol. wt. 346.5546		Incorrect	1,1'-Diphenyl-1,1'-bicyclopentane
Correct	$C_{28}H_{38}$ 1,1'-Diphenyl-1,1'-bicyclooctyl $C_p=490.6 \text{ J mol}^{-1} \text{ K}^{-1}$ mol. wt. 374.6082 [errors in formula, name, Cp, and mol. wt.]		Correct	1,1'-Diphenyl-1,1'-bicyclopentyl [nomenclature error]
439	$C_{48}H_{40}O_4Si_4$	82 KUL	454	{zeta]-Enantholactam
Incorrect	82KUL		Incorrect	{zeta}-Enantholactam
Correct	82KUL/DZH2 [reference squib error]		Correct	ζ -Enantholactam [Greek character correction]
442	$C_{66}H_{96}O_{12}$	86VAN/KAJ	463	<i>n</i> -Perfluorododecane
Incorrect	Phase change data incomplete for (solid I) and (solid III); Wiswesser line notation is in error for (solid I), (solid II), and (solid III).		Incorrect	(...no entry...)
Correct	See preceding three entries for $C_{66}H_{96}O_{12}$ with reference squib 86HEC/KAJ for correct phase change data for (solid II), and (solid III); Wiswesser line notation is correct in three preceding entries under 86HEC/KAJ. [references 86HEC/KAJ and 86VAN/KAJ are identical]		Correct	<i>n</i> -Perfluorododecane- $C_{12}F_{26}$ -307-59-5 [omitted from Compound Name-Formula-CASRN Index]
446	Bis[2-[[3-(1-aziridinyl)propyl]-methyl]-6-ethoxyphenolato- N^2,N^2,O^1 -(OC-6-1'2')-iron(1+)-perchlorate complex with benzene (...no entry...)		463	<i>n</i> -Perfluorohexadecane
Incorrect			Incorrect	(...no entry...)
Correct	Bis[2-[[3-(1-aziridinyl)propyl]-methyl]-6-ethoxyphenolato- N^2,N^2,O^1 -(OC-6-1'2')-iron(1+)-perchlorate complex with benzene- $C_{28}H_{38}FeN_4O_4^-$ 99572-42-6 [omitted from Compound Name-Formula-CASRN Index]		Correct	<i>n</i> -Perfluorohexadecane- $C_{16}F_{34}$ -355-49-7 [omitted from Compound Name-Formula-CASRN Index]
			463	<i>n</i> -Perfluorotetradecane
			Incorrect	(...no entry...)
			Correct	<i>n</i> -Perfluorotetradecane- $C_{14}F_{30}$ -307-62-0 [omitted from Compound Name-Formula-CASRN Index]
			464	Phthalazine
			Incorrect	(...no entry...)
			Correct	Phthalazine- $C_8H_6N_2$ -253-52-1 [omitted from Compound Name-Formula-CASRN Index]

466	Quinazoline	491	71HYD/SUB
Incorrect	(...no entry...)	Incorrect	71HYD/SUB
Correct	Quinazoline-C ₈ H ₆ N ₂ -253-82-7	Correct	71KHA/SUB
[omitted from Compound Name-Formula-CASRN Index]			
467	Quinoxaline	493	73SUB/RAS
Incorrect	(...no entry...)	Incorrect	73SUB/RAS
Correct	Quinoxaline-C ₈ H ₆ N ₂ -91-19-0	Correct	73SUB/RAJ
[omitted from Compound Name-Formula-CASRN Index]			
473	24JEN/SHO	494	74MIL/LEB
Incorrect	...Thermal properties of ethyl chloride, 66 , 347-349...	Incorrect	...1(36), 40-45 (1974).
Correct	...Thermal properties of ethyl chloride, Ice and Refrigeration 66 , 347-349...	Correct	...1(36), 140-145 (1974).
[journal name omitted]			
474	31SWI/RYB	496	76CON/GIN
Incorrect	..., Tybicka, S., and ...	Incorrect	76CON/GIN
Correct	..., Rybicka, S., and ...	Correct	76CON/GIA
[spelling error]			
474	31SWI/RYB2	497	77DEV/PER2
Incorrect	..., Tybicka, S., and ...	[reference is the same as 77VIS/PER]	
Correct	..., Rybicka, S., and ...	498	77VIS/PER
[spelling error]			
478	45FIS/NAY	500	79DEV/SOM
Incorrect	...Naylor, B. G., ...	[reference is the same as 79VIS/SOM]	
Correct	...Naylor, B. F., ...	501	79VIS/SOM
[error in author's initials]			
482	56PEN/FIN	501	79YEV/LEB
Incorrect	..., Meserly, J. F., ...	Incorrect	Evtropov, A.A., ...
Correct	..., Messerly, J. F., ...	Correct	Yevstropov, A.A., ...
[spelling error]			
484	60GER/SPE	502	81ING/CAS
Incorrect	Gerstein, B.C., Heat capacity and magnetic susceptibility...	Incorrect	...44, 77 (1981).
Correct	Gerstein, B. C., and Spedding, F. H., Heat capacity and magnetic susceptibility...	Correct	...44, 77-87 (1981).
[second author omitted in reference citation]			
484	61GLA/TIM	507	83SAN/CIO
Incorrect	... 70 , 5599-622 (1961).	Incorrect	...34, 23-43 (1983).
Correct	... 70 , 599-622 (1961).	Correct	...34, 24-43 (1983).
[error in first page entry]			
490	70BRE/BRE	511	86HEC/KAJ
Incorrect	70BRE/BRE	[reference is the same as 86VAN/KAJ]	
Correct	70MUR/BRE Murrill, E., and Breed, L., Solid-state phase transitions determined by differential scanning calorimetry. I. Tetrahedral substances. ...	512	86VAN/KAJ
[reference squib error and omission of title of article and authors]			
490	70CHA/MCC	512	86ZEG/BOE
Incorrect	70CHA/MCC	Incorrect	Zegers, H. C., Roegschoten, R., Mels, W., ...
Correct	70CHA/MCN	Correct	Zegers, H. C., Boegschoten, R., Mels, W., ...
[reference squib error]			

513	87NAZ/BAL	523	92RIB/FER2
Incorrect	87NAZ/BAL	Incorrect	...24(6), 585–594...
Correct	87NAZ/BAD	Correct	...24(6), 595–599...
	[reference squib error]		[error in page numbers]
515	88KOZ/KRA	524	93DIK/KAB
	[reference is the same as 88KOZ/KRA2]	Incorrect	...chlorocyclopentane...
515	88KOZ/KRA2	Correct	...chlorocyclopentane...
	[reference is the same as 88KOZ/KRA]		[spelling error]
515	88PIN/BRA	524	93KAJ/SOR
Incorrect	...Grolier, J.-P.E., Can. J. Chem. 66, 1179 (1988).	Incorrect	(...no entry...)
Correct	...Grolier, J.-P.E., Thermodynamics of alkanoate+alkane binary mixtures. Concentration dependence of excess heat capacities and volumes, Can. J. Chem. 66, 1179–1186 (1988). [title of article and last page omitted, but otherwise reference is the same as 88PIN/BRA2]	Correct	93KAJ/SOR Kaji, K., Sorai, M., Conti, A. J., and Hendrickson, D. N., Calorimetric study of spin-state transformation of ferric spin-crossover complexes in the solid state-1. Heat capacity of $[\text{Fe}(3\text{-OEt-SalAPA})_2]\text{ClO}_4 \cdot \text{C}_6\text{H}_6$, J. Phys. Chem. Solids 54, 1621–1632 (1993). [reference missing from Bibliography]
515	88PIN/BRA2	524	93LEB/BYK
	[reference is the same as 88PIN/BRA with corrections]	Incorrect	(...no entry...)
516	88ZHA/HON	Correct	93LEB/BYK Lebedev, B. V., Bykova, T. A., Vasil'ev, V. G., and Wunderlich, B., Heat Capacity and thermodynamic functions for a series of <i>n</i> -perfluoroalkanes over the range 0–320 K, Zhur. Khim. Termodin. i Termokhim. 2, 62–79 (1993). [reference missing from Bibliography]
516	88ZHA/ZOU	524	93SAB/LE
	[reference is the same as 88ZHA/HON]	Incorrect	(...no entry...)
516	189ABB/JIM	Correct	93 SAB/LE Sabbah, R., and Thi Huy Duc Le, Thermodynamic study of three isomers of hydroxybenzoic acid, Can. J. Chem. 71, 1378–1383 (1993). [reference missing from Bibliography]
Incorrect	Abbound, J.-L.M., Jiminez, P., Roux, M. V., and Turrión, C., ...	524	93SAB/PEM
Correct	Abboud, J.-L. M., Jiminez, P., Roux, M. V., Turrión, C., and Lopez-Mardomingo, C., ... [spelling error and omission of last author]	Incorrect	(...no entry...)
517	89PIN/GON	Correct	93SAB/PEM Sabbah, R., and Pemenzi, O., Energistics of intermolecular bonds in three diazines: phthalazine, quinazoline, quinoxaline, Compt. Rend. Acad. Sci. II 317, 575–581 (1993). [reference missing from Bibliography]
Incorrect	...15, 37–45 (1989).		
Correct	...153, 37–45 (1989).		
	[error in volume]		
520	91BAR/FON		
Incorrect	...22, 291–297 (1991).		
Correct	...Calorim. Anal. Therm. 22, 291–297 (1991). [name of journal was missing]		
520	91ISH/IWA		
Incorrect	...and Ikeda, R., ...		
Correct	...and Ikeda, R., ... [spelling error in name of last author]		
521	91YIN/LUI		
Incorrect	Yin, C., Ziru, L., Ganghe, W., Chengyun, W. <i>et al.</i> , ...		
Correct	Yin, C., Lui, Z., Wang, G., Wu, C. <i>et al.</i> , ... [surname errors]		
522	92JIM/ROU		
Incorrect	Jimenez, P. Roux, M. V., ...		
Correct	Jimenez, P., Roux, M. V., ... [clarification of first two authors]		

The authors thank Dr. Milan Zabransky (Institute of Chemical Technology, Prague, Czech Republic) for his careful examination of this publication and for his calling to our attention a large number of errors.